

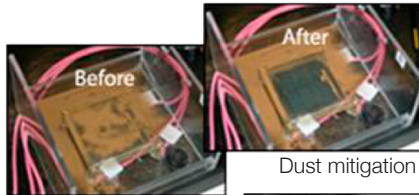


Life Sciences, Habitation Systems, and Human Research

NASA KSC is seeking partners in joint technology development projects and technology commercialization in the fields of basic space life sciences, human-based research, life support, and habitation systems.



Vegetable Production Unit



Dust mitigation for solar panels



ResQPod increases blood circulation to brain



Objective: Conduct research and develop technologies in basic and human-based space life sciences and in sustainable life support and habitation systems for long-duration space missions, in support of NASA and commercial crew health and performance.

Technology Areas:

- ◆ Spaceflight human physiology
- ◆ Space radiation
- ◆ Protein colloidal aggregation
- ◆ Portable intravenous-fluid production
- ◆ Portable noninvasive cardiovascular monitoring
- ◆ Testing and development of advanced protective equipment
- ◆ Habitat productive environment
- ◆ Bioregenerative, sustainable, closed-loop life support systems
- ◆ Microbial biofilms and antimicrobial surfaces
- ◆ Dust mitigation and dust-tolerant systems

Technology Capabilities:

- ◆ Biomedical Research Laboratory
- ◆ Atomic-force microscopy
- ◆ Dynamic Light Scattering System
- ◆ Postflight Biomedical Data Collection Facility
- ◆ Medical Device Development and Testing
- ◆ Environmental Microbiology Laboratory
- ◆ Metrology Laboratory
- ◆ Polymer Science and Technology Laboratory
- ◆ Flight Experiment Development Laboratory
- ◆ Electrostatics and Surface Physics Laboratory
- ◆ Electromagnetic Effects Laboratory
- ◆ Applied Chemistry Laboratory
- ◆ Granular mechanics and regolith operations
- ◆ Aerospace medicine and biomedical engineering expertise

Please contact us if you are interested in collaborating with KSC on joint development projects.

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